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(54) PRODUCTION OF TETRAFLUOROPHTHALONITRILE

(57)Abstract:

PURPOSE: To obtain the titled compound in high yield, by reacting a tetrachlorophthalonitrile with a fluorinating agent in benzonitrile within a specific temperature range under autogenous pressure conditions to exchange halogens.

CONSTITUTION: A tetrachlorophthalonitrile, e.g. tetrachloroisophthalonitrile, is reacted with a fluorinating agent, e.g. potassium fluoride, in benzonitrile medium within 190W400° C temperature range under autogenous pressure conditions to give the aimed tetrafluorophthalonitrile, e.g. tetrafluoroisophthalonitrile. The benzonitrile is thermally stable, and usable within the above-mentioned temperature range necessary for the halogen exchange. There is no side reaction between the raw materials or products. The formation of carbonized materials in a large amount can be prevented with easy temperature control. The amount of the tetrachlorophthalonitrile to be used is within about 5W50pts.wt. range based on 100pts.wt. solvent.

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